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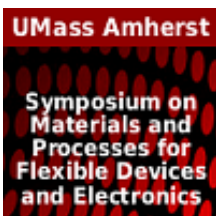


Latest Manufacturing Institutes Complement Nanoinformatics and Nanomanufacturing Initiatives

With the recent announcement by the administration on the technology focus and details for the next installment of Advanced Manufacturing Institutes (AMIs) as part of the National Network for Manufacturing Innovation (NNMI), an assessment of key synergisms of U.S. initiatives in nanoinformatics and the nanomanufacturing enterprise is timely. The two DOD-led institutes will include technology

focus areas in Digital Manufacturing and Design Innovation (DMDI) and Lightweight and Modern Metals Manufacturing Innovation (LM3I). Both of these conceptual institutes will incorporate overlapping themes including materials by design, supply-chain networking, and manufacturing on demand concepts in order to reduce the cost and time to market for advanced products and components for both military and commercial applications. The benefit will include enhanced U.S. manufacturing competitiveness and efficiency. The challenge is providing the vision, infrastructure, and platform to implement the necessary digital thread providing an impact across industry sectors on a national and eventually global scale.

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Materials and Processes for Flexible Devices and Electronics

Flexible electronics encompass a broad range of technologies impacting emerging applications that have generated significant interest due to the potential commercial opportunities, which

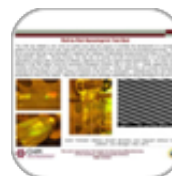
in turn has driven research and development in materials, devices, and scaled manufacturing methodologies. A range of materials encompassing organic, inorganic, and composite nanomaterials will enable a range of new consumer products including flexible displays, LED lighting, solar photovoltaics, integrated circuits and data storage.

RTI's Nanomaterial Registry Seeks Partners on Data Analysis

RTI is expanding the utility of its Nanomaterial Registry by partnering with research organizations, universities, and

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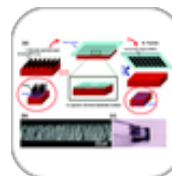
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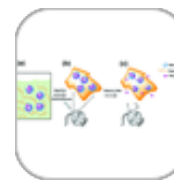
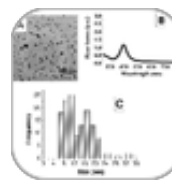


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industry in the nanomaterial research community to answer important questions on the connections between nanomaterial physical and chemical characteristics and nanomaterial benefits and risks.



Fast or Superfast Water Transport?

There were high hopes of using carbon nanotubes, particularly for ultra-fast water transport to desalinate seawater. However, a simulation now reveals that these ultra-fast transport rates might have not been properly grounded after all. Researchers who work with experiments and computer models have been at odds over the capabilities and governing physics of the material ever since.

National
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